

(19)



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European Patent Office

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(11)

EP 0 864 893 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
22.09.1999 Bulletin 1999/38

(51) Int. Cl.⁶: **G02B 6/42**

(43) Date of publication A2:
16.09.1998 Bulletin 1998/38

(21) Application number: 98104508.1

(22) Date of filing: 12.03.1998

(84) Designated Contracting States:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
NL PT SE

Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 13.03.1997 JP 5887697
24.07.1997 JP 19808397
09.02.1998 JP 2755898

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(54) **Packaging platform, optical module using the platform, and methods for producing the platform and the module**

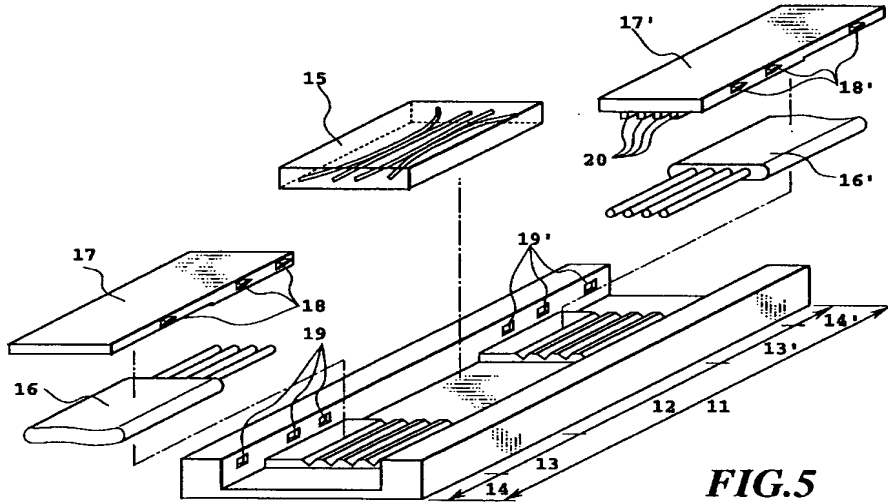
(57) A packaging platform (11,21,33,61) for optically coupling one or more optical waveguides of one or more optical components (15,22,31,65) to one or more optical fibers is provided with a reference structure portion (31-

10a,31-10b,33-10a,33-10b,33-6,80-10a,80-10c,80-10d) for the horizontal and vertical positioning of the optical component (15,22,31,65) and one or more fiber positioning portions (33-1) for inserting and holding the

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optical fiber and positioning the optical fiber at a position where the optical fiber is optically connected to the optical waveguide; whereby the packaging platform (11,21,33,61) and an optical module using the platform

are provided which can simplify all alignment steps for optical coupling, electrical connection and sealing in the coupling of the optical component and the optical fiber.





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EUROPEAN SEARCH REPORT

Application Number
EP 98 10 4508

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 532 470 A (SUISSE ELECTRONIQUE MICROTECH) 17 March 1993 (1993-03-17) * column 7, line 23 - column 8, line 43; claim 1; figure 2 * * column 8, line 47 - column 9, line 36; figures 3A,3C *	1-6, 8, 10-12, 22, 26-30, 49,50,52	G02B6/42
X		35,36	
Y		7,13-21, 23-25, 31-34, 37-48,51	
X	US 5 555 331 A (BILLET GILLES ET AL) 10 September 1996 (1996-09-10) * column 1, line 33 - line 59; figure 1 * * column 3, line 63 - column 4, line 11 *	1,3-6, 10-12,22	
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Y	US 5 488 678 A (TANEYA MOTOTAKA ET AL) 30 January 1996 (1996-01-30) * figures 3-5; examples 1-3 *	31-34	
A	EP 0 723 171 A (HITACHI LTD) 24 July 1996 (1996-07-24) * claim 1: figure 1 *	3,29	
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The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 27 July 1999	Examiner Lord, R
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03/92 (P4/C01)



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Application Number
EP 98 10 4508

DOCUMENTS CONSIDERED TO BE RELEVANT			
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A	FRIEDRICH E E L ET AL: "HYBRID INTEGRATION OF SEMICONDUCTOR LASERS WITH SI-BASED SINGLE-MODE RIDGE WAVEGUIDES" JOURNAL OF LIGHTWAVE TECHNOLOGY, vol. 10, no. 3, 1 March 1992 (1992-03-01), pages 336-340, XP000272892 * paragraph '00IV!; figures 3,4 *	9	
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The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 27 July 1999	Examiner Lord, R
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 (03/82) (Pct/C01)